

WHAT IS CLAIMED IS:

1. A torque converter that transmits torque using a fluid comprising:
an axis of rotation;
5 a fluid chamber comprising an impeller having impeller blades, said impeller having a first radius being the distance a radially inside end of said impeller blades and said axis of rotation;
a turbine having turbine blades, said turbine being arranged in said fluid chamber to face axially said impeller; and
10 a stator having stator blades, said stator being arranged between said impeller and said turbine, said stator having a second radius being the distance a radially inside end of said stator blades and said axis of rotation, said first radius being smaller than said second radius.
- 15 2. The torque converter according to claim 1, wherein a ratio of said first radius R1 divided by said second radius R2 is greater than or equal to 0.75.
3. The torque converter according to claim 2, wherein said stator further comprises a one-way clutch.
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4. The torque converter according to claim 3, wherein a ratio of said first radius R1 divided by said second radius R2 is 0.9.

5. The torque converter according to claim 2, wherein a ratio of said first radius R1 divided by said second radius R2 is 0.9.

6. The torque converter according to claim 1, wherein said stator further
5 comprises a one-way clutch.

7. The torque converter according to claim 6, wherein a ratio of said first radius R1 divided by said second radius R2 is 0.9.

10 8. The torque converter according to claim 1, wherein a ratio of said first radius R1 divided by said second radius R2 is 0.9.